INTERMEDIA®
CLOUD COMMUNICATIONS

DATASHEET

poly

EDGE E450

Business IP Phone

THE ULTIMATE IP PHONE FOR THE MODERN OFFICE

The Poly Edge E450 is a feature-rich IP phone designed for professionals who need advanced functionality and seamless connectivity. Featuring a 3.5” primary display and a 2.4” secondary display for enhanced navigation, it’s equipped with Wi-Fi and Bluetooth 5.0 for ultimate mobility. With 14-line keys supporting up to 44 programmable lines, it delivers the flexibility needed for hybrid work and high-performance office environments.

KEY FEATURES

- Dual displays (3.5" Primary + 2.4" Secondary)
- Wi-Fi ready & Bluetooth 5.0
- 14 line keys (Supports up to 44 programmable lines)
- Poly NoiseBlockAI and Acoustic Fence technology
- GigE PoE Connectivity

ADDITIONAL SPECIFICATIONS

DISPLAY

- Aspect ratio:
- 16:9 (primary); 9:16 (secondary)
- Native resolution:
- 320 x 240 (primary); 240 x 320 (secondary)
- Panel technology:
- Color IPS LCD
- Display size (diagonal):
- 3.5" (primary); 2.4" (secondary)
- Display size (diagonal, metric):
- 8.9 cm (3.5") (primary); 6.1 cm (2.4") (secondary)

CONNECTIVITY AND COMMUNICATIONS

External I/O ports:

- 1 USB 2.0 Type-C® (for media, storage applications, headset, expansion module)
- 2 RJ-45 (10/100/1000BASE-TX Mbps)

Wireless technologies:

- Bluetooth® 5.0
- Wi-Fi network connectivity: 2.4-2.4835 GHz (802.11b, 802.11g, 802.11n HT-20)
- 5.15-5.825 GHz (802.11a, 802.11n, HT-20, 802.11n HT-40)
- NFC3

BATTERY

Power features:

- 13 W (maximum)
- Built-in auto-sensing IEEE 802.3af Power over Ethernet (Class 4)2.4

USER INTERFACE FEATURES

Languages:

- Arabic; Chinese; Czech; Danish; Dutch; English; French; German; Hungarian; Italian; Japanese; Korean; Norwegian; Polish;Portuguese; Romanian; Russian; Slovenian; Spanish; Swedish
- Audio

Audio features:

- Poly HD Voice
- Poly Acoustic Clarity technology provides full duplex conversations, acoustic echo cancellation, and background noisesuppression
- Poly Acoustic Fence technology eliminates background noise when using a handset or wired headset
- Poly NoiseBlockAI technology removes most background noise when using the speakerphone
- Poly Computer Audio Connector app installed on your PC (Windows only) enables selecting your phone for PC audioin/out to use the phones handset, optional headset and handsfree speakerphone with PC applications
- Bass frequency enhancing design
- TIA-920 wideband audio, type 1 compliant (IEEE 1329 full duplex)
- Individual volume settings with visual feedback for each audio path
- Voice activity detection
- Comfort noise generation
- DTMF tone generation (RFC 2833 and in-band)
- Low delay audio packet transmission
- Adaptive jitter buffers

Frequency response (microphone):

- 150 Hz to 14 kHz

Audio codecs:

- G.711 (A-law and μ-law)
- G.722
- OPUS

ENVIRONMENTAL

Certifications and compliances:

- AS/NZS 4268; Australia RCM; Brazil ANATEL; CISPR22 Class B; EEA; EN55024;EN55032 Class B; EN 301 489-1; EN 301 489-3; EN 301 489-17; ETSI EN 300 328 v1.9.1; ETSI EN 301 893 v1.7.1; FCC Part 15(CFR 47) Class B; FCC Part 15.247; FCC Part 15.407; ICES-003 Class B; Israel MOC; Japan MIC/VCCI; Japan Item (19)-3;Japan Item (19)-3-2; Malaysia SIRIM; NZ Telepermit; Saudi Arabia CITC; Singapore IMDA; So. Africa ICASA; So. Korea KC;UAE TRA; Argentina ENACOM; Canada ICES; Canada–RSS 247 Issue2; China SRRC; China RoHS 2.0; Eurasian CustomsUnion EAC; India WPC; Indonesia SDPPI; Mexico IFETEL and NYCE; Taiwan NCC; UK - UKCA; USA FCC

Operating humidity range:

- 5 to 95%
- Operating Temperature Range (Celsius) / Operating Temperature Range (Fahrenheit): 0 to 40°C / 32 to 104°F
- Storage temperature range (Celsius) / Stoage temperature range (Fahrenheit): -40 to 70°C / -40 to 160°F

Energy star certified:

- ENERGY STAR® certified

CERTIFICATIONS

Special features:

- Unicode UTF-8 character support
- Adjustable desk stand (2 positions)
- Second display with 6 keys supporting up to 12 contact[5]

APPLICATIONS SUPPORTED

Management software:

- Poly Zero Touch Provisioning
- Poly Lens
- Polycom Device Management Service for Service Providers (PDMS-SP) Cloud Management
- SDPExternal Universal AC Adapter (optional, 12V 6W DC)

DISPLAY FEATURES

Lightbar status indicator (RGB with color mixing)

SECURITY

Security management:

- 802.1X Authentication and EAPOL Media encryption via SRTP
- Digest authentication
- Encrypted configuration files
- HTTPS secure provisioning
- Password login
- Support for signed software executables
- Support for URL syntax with password
- Transport Layer Security (TLS)
- Wi-Fi encryption: WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with 802.1X (EAP-TLS, PEAP-MSCHAPv2)
- SRTP media encryption using AES 256 bits

NETWORK

Supported network protocols:

- DHCP VLAN discovery
- LLDP-MED for VLAN discovery
- FTP/TFTP/HTTP/HTTPS server-based central provisioning
- Hardware diagnostics
- Manual or dynamic host configuration protocol (DHCP) network setup
- Network address translation support for static configuration and Keep-Alive
- QoS Support — IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS, and DHCP
- Status and statistics reporting
- Syslog Event Logging
- Conforms to IEEE802.3-2005 (Clause 40) for physical media attachment
- Conforms to IEEE802.3-2002 (Clause 28) for link partner auto-negotiation
- Time and date synchronization using SNTP
- RTCP and RTP support
- IPv4
- IPv6
- Provisioning and call server redundancy support
- DNS-SRV
- UDP
- SIP protocol support
- IETF SIP (RFC 3261 and companion RFCs)
- VoIP features:
- 8 line keys supporting up to 32 SIP lines with pagination

ADDITIONAL SPECIFICATIONS

HEADSET AND HANDSET COMPATIBILITY

Headset ports:
- 1 RJ-9
- 1 Electronic Hook Switch (EHS) port for optional APP-51 adapter

Headset and handset compatibility:
- Compatible with commercially available TTY adapter equipment
- Compliant with ADA Section 508 Subpart B 1194.23 (all)
- Hearing aid compatibility to ITU-TP.370 and TIA 504A standards
- Hearing aid compatible (HAC) handset for magnetic coupling to hearing aids
- USB Type-C® headset support

TELEPHONY AND CALL HANDLING FEATURES

Telephony and call handling features:
- 4 context-sensitive soft keys
- 4 way navigation key cluster with center Select key
- Bundled with Polycom UC Software: Corporate Directory Access using LDAP
- Busy Lamp Field (BLF)
- Call timer and call waiting
- Call transfer, hold, divert (forward), park, pickup
- Called, calling, connected party information
- Calling Party Identification (RFC8225 classifications — Trusted, Unknown, SPAM)
- Distinctive incoming call treatment/call waiting
- Do not disturb function
- Electronic hook switch capable
- Enhanced Feature Keys make powerful feature shortcuts online key appearances or soft keys
- Headset select key (illuminated when selected)
- Hold and transfer keys
- Home and back feature keys
- Local three-way audio conferencing
- Local configurable digit map/dial plan
- Mute key (illuminated when muted)
- One-touch speed dial, redial
- Pagination key for additional lines/ contacts
- Remote missed call notification
- Reverse number lookup via LDAP
- Shared call/bridged line appearance
- Speakerphone select key (illuminated when selected)
- Supports Polycom Apps SDK and API for third- party business and personal application
- Visual Conference Management
- Voicemail key
- Volume +/- control keys
- Flexible line appearance (one or more line keys can be assigned for each line extension)
- 14 line keys (arranged 8+6 on two displays) supporting up to 44 line key assignments for lines, contacts, and featureswith pagination
- Weight and dimensions

Product Primary Color:
- Black

Package dimensions (imperial):
- 10.2 x 12 x 3.5 in

Package dimensions (metric):
- 25.8 x 30.6 x 8.9 cm

Package weight (imperial):
- 2.45 lb

Package Weight (metric):
- 1110 g

Product number:
- 82M90AA

COUNTRY OF ORIGIN

- Country of origin:
- Made in China

WARRANTY

- Poly standard one-year limited warranty

WHAT IS IN THE BOX

- Setup sheet
- Network (LAN) cable-CAT-5E
- Desk stand
- Console with Microban® Antimicrobial protection
- Handset with Microban® Antimicrobial protection
- Handset cord
- Key

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